

SUBSTITUTE FORM PTO-1449 (MODIFIED)										U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE										ATTY. DOCKET NO. 08917/048001										SERIAL NO.																			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)																				APPLICANT Masahide Shima et al.																													
(37 CFR 1.98(b))																				FILING DATE November 16, 1999																				GROUP 1754									
U.S. PATENT DOCUMENTS																																																	
EXAMINER INITIAL										PATENT NUMBER								ISSUE DATE				PATENTEE										CLASS				SUBCLASS				FILING DATE IF APPROPRIATE									
CAN		AA		5		3		9		5		8		1		2		03/07/95				Nagase et al.										502				238													
CAN		AB		5		1		0		0		8		5		9		03/31/92				Gerdes et al.										502				439													
CAN		AC		5		0		7		7		2		5		6		12/31/91				Yamamoto et al.										502				243													
CAN		AD		4		1		6		8		2		4		7		09/18/79				Hayden et al.										252				476													
		AE																																															
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION																																																	
				DOCUMENT NUMBER								PUBLICATION DATE				COUNTRY OR PATENT OFFICE										CLASS				SUBCLASS				TRANSLATION															
																																		YES		NO													
CAN		AL		0 207 550								09/19/90				EP										B01J				23/66																			
CAN		AM		A-57-171435								10/22/82				JP (Abstract Included)										B01J				21/12																			
CAN		AN		A-4-363139								12/16/92				JP (Abstract Included)										B01J				23/50																			
		AO																																															
		AP																																															
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)																																																	
		AQ																																															
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EXAMINER																				DATE CONSIDERED																													
Can Nguyen																				7/29/03																													
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.																																																	

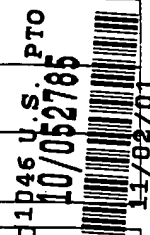
Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
08917-048001Application No.
09/441,545**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Masahide Shima et al.Filing Date
November 16, 1999

Group Art Unit

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
CAN	AA	4,812,437	03/14/89	Nojiri et al.	502	243	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CAN	AL	A-4-346835	12/2/92	JP	B01J	23/66	X	
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature

Date Considered

7/29/03

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Substitute Disclosure Form (PTO-1449)